Inventor search

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

2003:208706 CAPLUS ACCESSION NUMBER:

Marine pyridoacridine alkaloids and synthetic TITLE:

analogues as antitumor agents

Delfourne, Evelyne; Bastide, Jean AUTHOR(S):

Centre de Phytopharmacie, UMR-CNRS 5054, Universite de CORPORATE SOURCE:

perpignan, Perpignan, 66860, Fr.

Medicinal Research Reviews (2003), 23(2), 234-252 SOURCE:

CODEN: MRREDD; ISSN: 0198-6325

John Wiley & Sons, Inc. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

Pyrido[4,3,4-mn]acridines are of major interest as metabolites in sponges ΑB abd ascidians. During the last few years, numerous addnl. compds. of this family were isolated, some of them being polycyclic structures already reported with different substituents (shermilamine or kuanoniaminederivs.), others, such as neomphimedine, arnoamines and styelsamines having original structures. The synthesis of these compds. and analogs have been performed in order to allow their biologicl evaluation. In most of the cases, the cytotoxicity of analogs was improved compared to the natural product, specially in ascididemin or meridine series. The pyridoacridines have not a sole mode of action, but it seems that the reductive DNA cleavage mediated by reactive oxygen species is a potential

general mode of action.

REFERENCE COUNT:

THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS 59 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS 2002:525769 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 137:217121

Synthesis and In Vitro Antitumor Activity of Novel TITLE:

Ring D Analogues of the Marine Pyridoacridine Ascididemin: Structure-Activity Relationship

Delfourne, Evelyne; Darro, Francis; AUTHOR(S):

Portefaix, Philippe; Galaup, Chantal; Bayssade, Sylvie; Bouteille, Anne; Le Corre, Laurent; Bastide,

Jean; Collignon, Francoise; Lesur, Brigitte; Frydman,

Armand; Kiss, Robert

Centre de Phytopharmacie-, UMR-CNRS 5054, Universite CORPORATE SOURCE:

de Perpignan, Perpignan, 66860, Fr.

SOURCE: Journal of Medicinal Chemistry (2002), 45(17),

3765-3771

CODEN: JMCMAR; ISSN: 0022-2623

American Chemical Society

PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

OTHER SOURCE(S): , CASREACT 137:217121

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Marine compds. with pyridoacridine skeletons are known to exhibit AΒ interesting antitumor activities. Ascididemin has already been reported as displaying significant antitumor activities in vitro and has also been found to have a relatively high global toxicity in vivo. We synthesized a series of 16 analogs (among which 11 compds. were different from previously described ones) with the aim of developing new anticancer agents with significantly improved efficacy/tolerability ratios. These compds. were obtained either by total synthesis from 5,8-quinolinedione and substituted 2-aminoacetophenones or by the direct substitution of ascididemin (I). The different compds. and ascididemin used as the control compd. were tested at six different concns. on 12 different human cancer cell lines of various histopathol. types (glioblastomas and breast, colon, lung, prostate, and bladder cancers). The IC50 value (i.e., the drug concn. inhibiting the mean growth value of the 12 cell lines by 50%) of these compds. ranged over five log concns., i.e., between 10 000 and 0.1 nM. For several new chem. entities, the antitumor activity (detd. in vitro) and tolerability (detd. in vivo) were superior to those of the parent alkaloids, i.e., ascididemin (I) and 2-bromoleptoclinidone (II).

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 28 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

2001:137218 CAPLUS 134:193607

TITLE:

Preparation of phenanthrolin-7-one derivatives and their therapeutic uses as antitumoral medicines

INVENTOR(S): Delfourne, Evelyne; Darro, Francis; Bastide,

Jean; Kiss, Robert; Frydman, Armand

PATENT ASSIGNEE(S):

Laboratoire L. Lafon, Fr. PCT Int. Appl., 54 pp.

SOURCE:

CODEN: PIXXD2 Patent

DOCUMENT TYPE:

French

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
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PRIORITY APPLN. INFO.:
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                    CASREACT 134:193607; MARPAT 134:193607
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OTHER SOURCE(S):

The invention concerns a pharmaceutical compn. comprising an efficient AΒ amt. of a compd. selected among the compds. I [R1, R2, R3, R4, R5 = H, halogen, C1-6-alkyl, OH, CHO, OR8, CO2H, CN, CO2R8, CONHR8, CONR8R9, NH2, NHR8, N(R8)2, NHCH2CH2NMe2, NHCH2CH2Cl, NHCOR8, morpholino, NO2, SO3H, CH2N(CO2R8)CH2CO2R9, CH2N(CO2R8)CH2Ar; R6 = H, halogen, C1-6-alkyl, (CH2)nR10, ; R7 = H, C1-6-alkyl, Ph-C1-4-alkyl, NR15R16; R8, R9 =C1-6-alkyl, Ph-C1-4-alkyl; R10 = halogen, OH, C1-6-alkoxy, OC(:O)-C1-6-alkyl, CN, CO2Et, COR11; R11 = Ph-C1-4-alkyl, NR12R13; R12, R13 = H, C1-6-alkyl, Ph-C1-4-alkyl, (CH2)nR14; R14 = halogen, C1-6-alkoxy, NMe2; R15, R16 = H, C1-6-alkyl, Ph-C1-4-alkyl, (CH2)nR17; R17 = H, halogen, OH, C1-6-alkoxy; Ar = C6-14-aryl; n = 1 - 6] and II or their pharmaceutically acceptable salts. Thus, I [R1 = R2 = R3 = R4 = R5 = R6 = R7 = H (CRL8293)] and II [R1 = R2 = R3 = R4 = R5 = R6 = R7 = H (CRL8294)] were prepd. from quinoline-5,8-dione via Diels-Alder with crotonaldehyde dimethylhydrazone followed by cyclocondensation of the resulting quinone III with Me2NCMe(OEt)2. I (R1 = R2 = R3 = R4 = R5 = R6 = R7 = H) and II (R1 = R2 = R3 = R4 = R5 = R6 = R7 = H) have interesting cytotoxic properties [DMT = 10 mg/Kg (DMT = max. tolerable dose); -33% and -36%, resp. tumor surface diminution {murin mammary carcinoma (MXT-HI)}; -45% and -64%, resp. tumor surface diminution [{murin mammary adenocarcinoma (MXT-HS)]; and, for II, T/C = 136% (lymphoma L1210)] leading to a therapeutic use as antitumoral medicines.

L1 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:137217 CAPLUS

DOCUMENT NUMBER:

134:178717

TITLE:

Ascididemin derivatives and their

therapeutic applications

INVENTOR(S):

Delfourne, Evelyne; Darro, Francis; Bastide,

Jean; Kiss, Robert; Frydman, Armand

PATENT ASSIGNEE(S):

Laboratoire L. Lafon, Fr.

SOURCE:

PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.		KIND	DATE		APPLICATION NO.					DATE			
WO 2001012631		A2	20010222	WO 2000-FR2312					20000811				
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OTHER SOURCE(S):

MARPAT 134:178717

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The invention discloses the prepn. and a pharmaceutical compn. comprising AΒ an efficient amt. of a compd. of formulas I and II [R1 = H, halogen, NO2, NR8R9 (R8, R9 = H, alkyl); R2 = H, halogen; R3 = H, halogen, alkyl, alkoxyl etc.; , R4 = H, halogen, NR8R9; R5-R7 = H, halogen, alkyl, carbonyloxyalkyl etc.; X = O, NH, NOH] for use as antitumor agent. ascididemin deriv. I [R1-R2,R4-R7 = H, R3 = Me; X = 0] was prepd. via a multistep synthetic sequence starting from quinoline-5,8-dione, 5-methyl-2-amino acetophenone and DMF dimethylacetal. The prepd. ascididemin derivs. were tested for cytotoxic properties leading to a therapeutic use of these compds. as antitumoral medicines.